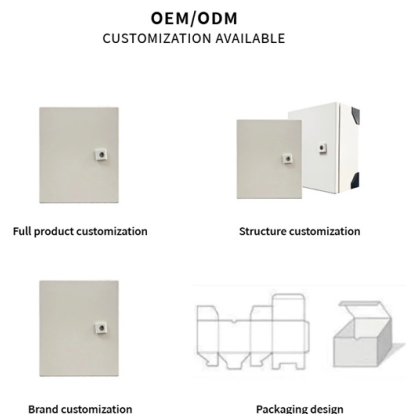


How to configure the gateway IP on a core switch



AI Overview

To configure a gateway IP on a core switch, assign an IP to a VLAN interface and set the default gateway using the `ip default-gateway` command.

Step 1: Access the Switch CLI
Connect to the switch using a console cable or SSH. Enter Enable mode by typing `enable` and providing the necessary password. Then enter Global Configuration mode with `configure terminal`.

Step 2: Assign an IP Address to a VLAN Interface
Since Layer 2 switch ports cannot have IP addresses, you need to configure a Switched Virtual Interface (SVI), usually VLAN 1 or a management VLAN:
`CodeCopySwitch(config)# interface vlan 1`
`Switch(config-if)# ip address 192.168.1.10 255.255.255.0`
`Switch(config-if)# no shutdown`
This IP allows the switch to be managed via Telnet, SSH, or web GUI.

Step 3: Configure the Default Gateway
The default gateway is the router or Layer 3 switch IP that connects the switch's subnet to other networks. Configure it with:
`CodeCopySwitch(config)# ip default-gateway 192.168.1.1`
This ensures the switch can communicate with devices outside its local subnet. Without this, the switch can only reach hosts in the same VLAN or subnet.

Step 4: Verify the Configuration
Check the IP and gateway settings using:
`CodeCopySwitch# show running-config`
`Switch# show ip route`
The `show ip route` command should display a default route (0.0.0.0/0) pointing to the configured gateway. You can also test connectivity with `ping 192.168.1.1` to ensure the switch can reach the gateway.

Additional Considerations
Ensure the gateway IP is in the same subnet as the switch's SVI. For Layer 3 switches, you can also configure routing instead of `ip default-gateway` if the switch participates in inter-VLAN routing. Save the configuration to NVRAM to retain it after a reboot using `write memory` or `copy running-config startup-config`. By following these steps, your core switch will be abl...

Article Content

Core Switch Default Gateway

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Contact Us

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